

Echo Cancellor for all systems

PRI to Echo Cancellor pin assignments

Echo Cancellers are required only if using satellite transmission. The Echo Cancellor detects the length of the loop then cancels reflected transmission (hearing your own voice at the other end).

The Echo Cancellor is controlled by an RS-232 port on the QPC720 PRI circuit card. The following tables give the Echo Cancellor pin assignments, operating parameters, and initialization procedures.

See [Figure 38](#) for PRI to Echo Cancellor cabling.

Table 41
PRI to Echo Cancellor pin assignments

Signal	EIA RS-232-C circuit designation	PRI pin	Echo Cancellor pin
Transmitted Data (TXD)	BA	5	2
Received Data (RXD)	BB	2	3
Request to Send (RTS)	CC	-	4
Clear to Send (CTS)	CB	-	5
Signal Ground (common return)	AB	10	7
Received Line Signal Detector (DCD)	CF	1	8
Data Terminal Ready (DTR)	CD	4	20

Table 42
Echo Cancellor operating parameters

Data transfer rate	4800 baud
System unit number	1
Display timeout	active
Failures before alarm	3

Table 43
Echo Cancellor initialization procedures

Note: Each of the 24 channels on the Echo Cancellor must be initialized as shown below:	
Bypass	OFF
Off-Hook	ON
Cancellor only	OFF
H reset	OFF
H hold	OFF

Electromagnetic Interference

The electromagnetic interference (EMI) filter assembly for PRI is PO643763. The Meridian 1 meets FCC Part 15, Subpart J, Class A requirements regarding EMI. In order to accomplish this, the SDI cables must exit the cabinet through EMI filters on the I/O panel. This procedure depends on the Meridian 1 cabinet type.

Figure 38
PRI to Echo Cancellor cabling

